

WORKLIGHT WITH THERMAL WARNING

ABSTRACT OF THE DISCLOSURE

An enhanced built-in visual warning mechanism to caution a user when the surfaces of a worklight are hot. A worklight is shown that has a housing that includes an interior portion for holding a light source such as one or more quartz halogen bulbs. The light source

- 5 operates at a temperature sufficient to raise at least portions of the exterior surfaces of the housing to a temperature that is hot to human touch during normal operation of the worklight. A thermochromic substance is disposed in thermal communication with at least a portion of one of the exterior housing surfaces in a readily visible position. The thermochromic substance is formulated to undergo a conspicuous color change, in the
- 10 normal operation of the worklight, in response to heat from the external surface where it is located. The dynamic color change provides a timely visible indication to the user that the exterior surface is presently hot to the touch. In some embodiments a thermal moderator is introduced between the hot worklight surface and the thermochromic substance to moderate the heat level applied to the thermochromic substance.